

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/549,661  
Source: PG/10  
Date Processed by STIC: 10/4/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

## RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025d1d\_SI21268US\_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

1 <110> APPLICANT: Samsung Electronics Co. Ltd.  
 3 <120> TITLE OF INVENTION: A polynucleotide associated with a colon cancer comprising  
 single  
 4 nucleotide polymorphism, microarray and diagnostic kit comprising  
 5 the same and method for diagnosing a colon cancer using the  
 6 polynucleotide  
 8 <130> FILE REFERENCE: PN060547  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/549,661  
 C--> 10 <141> CURRENT FILING DATE: 2005-09-16  
 10 <160> NUMBER OF SEQ ID NOS: 48  
 12 <170> SOFTWARE: KopatentIn 1.71  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 201  
 16 <212> TYPE: DNA  
 17 <213> ORGANISM: Homo sapiens  
 19 <220> FEATURE:  
 20 <221> NAME/KEY: variation  
 21 <222> LOCATION: (101)  
 22 <223> OTHER INFORMATION: n=A or C, polymorphic site  
 25 <400> SEQUENCE: 1  
 26 tacattactg tattgtatac attttgtcta tttcttcttt gattttgttt ttgtttttat 60  
 W--> 28 aattatttca ggtgtgggga aaaattctgt ccctgatact ncatcttgtc cagaactgga 120  
 30 agagctcatt atttctttat ttgtactggt tttatctatt catccatagt gttctcaaca 180  
 32 gagctatcaa aagtattatc a 201  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 201  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Homo sapiens  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: variation  
 42 <222> LOCATION: (101)  
 43 <223> OTHER INFORMATION: n=A or G, polymorphic site  
 46 <400> SEQUENCE: 2  
 47 tctataccac agtagtggtg atctcaagag cttagcatgt tggcttaaag acatccaggg 60  
 W--> 49 atgaggtggt ggagtcagat tgagtttgaa tcttagctct ncttggtatta ctgtgttattc 120  
 51 ttggccaagt atttaacctc tctgaaatag gttttctcag ggctgtgaag tttggaagat 180  
 53 acataaaaagc ccaaagaaaa a 201  
 56 <210> SEQ ID NO: 3  
 57 <211> LENGTH: 201  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: Homo sapiens  
 61 <220> FEATURE:  
 62 <221> NAME/KEY: variation  
 63 <222> LOCATION: (101)

Does Not Comply  
 Corrected Diskette Needed

P.3

## RAW SEQUENCE LISTING

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Output Set: N:\CRF4\10042005\J549661.raw

```

64 <223> OTHER INFORMATION: n=A or C, polymorphic site
67 <400> SEQUENCE: 3
68 ccttaagggtg gacagaaaat gaattgtttc cttcttacca tctgttattg tttttgctg      60
W--> 70 aaggcctgac tgccttccta ctccctaata aacaaagggg nattctattg accaattcat      120
72 tttcaaagag attttaaaag gcattaagca atcaattctc acatagtgtc caaattgagt      180
74 ctctcattca ttctcttgcc t                                201
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 201
79 <212> TYPE: DNA
80 <213> ORGANISM: Homo sapiens
82 <220> FEATURE:
83 <221> NAME/KEY: variation
84 <222> LOCATION: (101)
85 <223> OTHER INFORMATION: n=G or C, polymorphic site
88 <400> SEQUENCE: 4
89 tgacctcagg tgatccaccc acctcggcat cccaaagtgc tgggattaca ggtgtgagcc      60
W--> 91 accacaccag gccttgggta ccatgccttg aaccatttca ntgccttttg gagatggatg      120
93 agttgccagc atccttctta gatccctata tatttgttta ttattgaac aaatacatat      180
95 taacttatct ttttgaccaa a                                201
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 201
100 <212> TYPE: DNA
101 <213> ORGANISM: Homo sapiens
103 <220> FEATURE:
104 <221> NAME/KEY: variation
105 <222> LOCATION: (101)
106 <223> OTHER INFORMATION: n=G or T, polymorphic site
109 <400> SEQUENCE: 5
110 cccaggattg gaaatgatgg atgctttcca ggggccccga tccatcatca gatgaatacg      60
W--> 112 cagccccctc cccaaggaag ctcttggttc attgagatgc ntaattctct ccttattttc      120
114 attactgttt ctggtttgta tggattattt ttcttcagta atctgggctt tacatgactg      180
116 aataagaaaa tcatttggtc a                                201
119 <210> SEQ ID NO: 6
120 <211> LENGTH: 201
121 <212> TYPE: DNA
122 <213> ORGANISM: Homo sapiens
124 <220> FEATURE:
125 <221> NAME/KEY: variation
126 <222> LOCATION: (101)
127 <223> OTHER INFORMATION: n=A or T, polymorphic site
130 <400> SEQUENCE: 6
131 atttcctgcc tgtgataaat gtgtcccaat atttgtcttt tggttggttg tgttgagaat      60
W--> 133 catttctcat gttgggaaat gtgaagtcaa atagtgtgac nggacttgct gaatgattga      120
135 gtcaaccaca aatggtattg tcaaccatgg ctgttggaatt aatgagaaca attaaaactc      180
137 atttttcaga ggtcaaaaga t                                201
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 201
142 <212> TYPE: DNA
143 <213> ORGANISM: Homo sapiens

```

## RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025d1d\_SI21268US\_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

```

145 <220> FEATURE:
146 <221> NAME/KEY: variation
147 <222> LOCATION: (101)
148 <223> OTHER INFORMATION: n=G or T, polymorphic site
151 <400> SEQUENCE: 7
152 attagctaaa cagtttaatg atgatctgcc aagaaattga tgtcagcagt tagaaaacta      60
W--> 154 aagtcctttt ttatgcagag acagcacagt tggtaaaatt nttatagttg acaagttgga      120
156 aagcagtgca tgtctctgac aagacttcag ctctgtggga agtgtttga aagaaatgga      180
158 gtgatatgtt ttgttggcat t                                     201
161 <210> SEQ ID NO: 8
162 <211> LENGTH: 201
163 <212> TYPE: DNA
164 <213> ORGANISM: Homo sapiens
166 <220> FEATURE:
167 <221> NAME/KEY: variation
168 <222> LOCATION: (101)
169 <223> OTHER INFORMATION: n=A or C, polymorphic site
172 <400> SEQUENCE: 8
W--> 173 tgctcatgta ccttatggat ttgacccacc tcattctgga caaanctca ggaggatctc      60
175 ttcagggaca tgatgcagtt ttgagactgg tggagattcg nacggtatga agcatttggc      120
177 ttcttggagt tttaggtttc taaattttga gctccaaggg tatcacacag tagctctcat      180
179 ttaagtgagt cttctcatgt t                                     201
182 <210> SEQ ID NO: 9
183 <211> LENGTH: 201
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
187 <220> FEATURE:
188 <221> NAME/KEY: variation
189 <222> LOCATION: (101)
190 <223> OTHER INFORMATION: n=G or T, polymorphic site
193 <400> SEQUENCE: 9
194 aatatgatgt cttggatttg cttcaaaata atacaagaaa agggtttgac ttttggtcag      60
W--> 196 tatatagatg agtcatgact gaccatgggg tgacaattgt ngaagctgag ttaggtaccc      120
198 agaggttcgt tataatattc tgtctatgtt aatctgcaat atgtctgaca tttttataa      180
200 ttaaaacttc ttttgaaaag a                                     201
203 <210> SEQ ID NO: 10
204 <211> LENGTH: 201
205 <212> TYPE: DNA
206 <213> ORGANISM: Homo sapiens
208 <220> FEATURE:
209 <221> NAME/KEY: variation
210 <222> LOCATION: (101)
211 <223> OTHER INFORMATION: n=G or T, polymorphic site
214 <400> SEQUENCE: 10
215 attaaaaaac ctgtattttt ggatgtattt ttagaaaaac agatttacag gaaacaaacc      60
W--> 217 aaacaaaaag acttgtggta caagaaaatt agaaaatata ntatatattaa aatggacgtg      120
219 ttagcttgtc ccaggtaaac tcagttcaaa atatgggata aaagagattt tacttttaac      180
221 ttcgaacagc tagagaatga t                                     201
224 <210> SEQ ID NO: 11

```

*What about 'n' at location 45?*

## RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025dld\_SI21268US\_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

```

225 <211> LENGTH: 201
226 <212> TYPE: DNA
227 <213> ORGANISM: Homo sapiens
229 <220> FEATURE:
230 <221> NAME/KEY: variation
231 <222> LOCATION: (101)
232 <223> OTHER INFORMATION: n=A or G, polymorphic site
235 <400> SEQUENCE: 11
236 aattggtaat tactttgatt aaattaatTTT aaaacttggc agtctgtgga gacatttttg      60
W--> 238 attgttagag cttggagggg ccatccgtgg gaagaggcca nggatgctgc tggaaaccta      120
240 caatgcccag gacagccctc aacaaaaaat gttctggctt caaatgtcaa tagctctgag      180
242 attgagaaac cctgttatag t      201
245 <210> SEQ ID NO: 12
246 <211> LENGTH: 201
247 <212> TYPE: DNA
248 <213> ORGANISM: Homo sapiens
250 <220> FEATURE:
251 <221> NAME/KEY: variation
252 <222> LOCATION: (101)
253 <223> OTHER INFORMATION: n=A or G, polymorphic site
256 <400> SEQUENCE: 12
257 aagcagaaga tgaccagtct gaggcttcag ggaagaaatc tgtgaaggga gtgtctaaga      60
W--> 259 aatatgttcc tccacgcttg gttccagtac attatgggtat naacttttggc tgctgcctcc      120
261 tcagcatgaa ctgtttctct tttctctgtt cttggataac cctgcttatt ttcacatgt      180
263 agatgaaaca gaagctgagc g      201
266 <210> SEQ ID NO: 13
267 <211> LENGTH: 30
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: primer
275 <400> SEQUENCE: 13
276 acgttggatg gagctcttcc agttctggac      30
279 <210> SEQ ID NO: 14
280 <211> LENGTH: 30
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: primer
288 <400> SEQUENCE: 14
289 acgttggatg tcaggtgtgg ggaaaaattc      30
292 <210> SEQ ID NO: 15
293 <211> LENGTH: 19
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: primer
301 <400> SEQUENCE: 15
302 tccagttctg gacaagatg      19

```

## RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025d1d\_SI21268US\_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

```

305 <210> SEQ ID NO: 16
306 <211> LENGTH: 30
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: primer
314 <400> SEQUENCE: 16
315 acgttggatg aaagacatcc agggatgagg 30
318 <210> SEQ ID NO: 17
319 <211> LENGTH: 30
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: primer
327 <400> SEQUENCE: 17
328 acgttggatg acttggccaa gataacacag 30
331 <210> SEQ ID NO: 18
332 <211> LENGTH: 20
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: primer
340 <400> SEQUENCE: 18
341 tgagtttgaa tcttagctct 20
344 <210> SEQ ID NO: 19
345 <211> LENGTH: 30
346 <212> TYPE: DNA
347 <213> ORGANISM: Artificial Sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: primer
353 <400> SEQUENCE: 19
354 acgttggatg tggacactat gtgagaattg 30
357 <210> SEQ ID NO: 20
358 <211> LENGTH: 31
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: primer
366 <400> SEQUENCE: 20
367 acgttggatg ccttcctact ccctaataaa c 31
370 <210> SEQ ID NO: 21
371 <211> LENGTH: 24
372 <212> TYPE: DNA
373 <213> ORGANISM: Artificial Sequence
375 <220> FEATURE:
376 <223> OTHER INFORMATION: primer
379 <400> SEQUENCE: 21
380 tgaaaatgaa ttggtcaata gaat 24
383 <210> SEQ ID NO: 22

```

## RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:21

Input Set : A:\SYQ96025d1d\_SI21268US\_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 101  
Seq#:2; N Pos. 101  
Seq#:3; N Pos. 101  
Seq#:4; N Pos. 101  
Seq#:5; N Pos. 101  
Seq#:6; N Pos. 101  
Seq#:7; N Pos. 101  
Seq#:8; N Pos. 45, 101  
Seq#:9; N Pos. 101  
Seq#:10; N Pos. 101  
Seq#:11; N Pos. 101  
Seq#:12; N Pos. 101

## VERIFICATION SUMMARY

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:21

Input Set : A:\SYQ96025d1d\_SI21268US\_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60  
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60  
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60  
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60  
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
M:341 Repeated in SeqNo=8  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60  
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:60  
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:60  
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:60